## Diagnostics – Parking Light Flash Table

| Flashes | Description | |
|---|---|---|
| 1 | • Doors locked, starter kill armed.<br>• Run time has expired.<br>• Buttons I & II pressed (**TRUNK**).<br>• Start signal received by the module.<br>• Cold weather mode cancelled. | |
| 2 | • Remote start attempt cancelled by remote.<br>• Doors unlocked, starter kill disarmed.<br>• Exiting ignition valet<br>• Power-up reset | |
| 3 | • Entering cold weather mode.<br>• Entering ignition valet.<br>• Entering or exiting Ready Mode. | |
| 3 slow flashes… | …after a failed start attempt | The module did not detect a tach signal. |
| 4 | • +12 V detected on the brake input wire either while cranking or during run time.<br>• Entering multi-speed tach programming. | |
| 5 Slow | • Start attempt failed because no tach signal has been programmed. | |
| 5 Fast | • Tach signal programmed. | |
| 6 | • A remote start was attempted while a tach-before-crank signal was detected before cranking. | |
| 8 | • Unit reset see “Resetting the Module” (p.2) | |
| 10 | • A ground (-) signal was detected on the hood pin input wire. | |
| 1 —pause — 1—pause — 5 flashes [During the transmitter programming procedure] | • Transmitter has been programmed. | |
| 1 – pause – 2 | • There was a remote start attempt while the vehicle was in valet mode.<br>• Failed start: vehicle’s low battery voltage. | |
| ON SOLID for 3 seconds…. | …followed by 1 flash | Exiting cold weather mode |
| | …followed by 3 flashes | Entering cold weather mode |
| ON continuously | • **Idle mode:** Idle mode is engaged<br>• **Run time:** The vehicle has been remote started and is in run time. | |
| ON continuously | While the brake pedal is pressed. | •Confirms that cold weather mode is engaged |
| ON 2 seconds | • The hood has been opened and a ground (-) signal has been detected on the hood pin input wire. | |
| ON 4 seconds | • Locking or unlocking a door (with Door pulses configured to 4 sec.) | |
| ON 20 seconds | • The hood pin has been flashed and you are now in the programming centre. | |
| Constantly flashing up to 25 seconds | • **Panic Mode** is triggered. | |

***To obtain a copy of the installation guide, please visit the http://www.autostart.ca website and click on the « Download » tab.***





# AS-1291
# Quick Installation Guide

***To obtain a copy of the installation guide, please visit the http://www.autostart.ca website and click on the « Download » tab.***

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**Please note:**

Button I is for **START** (by default).
Button II is for **STOP** (by default).
Buttons I & II (together) is for the **TRUNK** release function.
**The LED is NOT included in this model.**
**The valet button is optional.**

## How to Flash the Hood Pin

| THE INSTALLER … | THE MODULE … |
|---|---|
| 1. Press and hold the hood pin for 4 seconds.<br>2. Release the hood pin.<br>3. While the parking lights are on, press down the hood pin once more and release the hood pin immediately.<br>4. You now have 20 seconds to select one of the sub-menus | Parking Lights “ON”<br>“ON” for 20 seconds |

**Notice**

The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of the product, be that either damage to the vehicle itself or to the unit. This unit must be installed by a certified technician using all safety devices supplied. Please note that this guide has been written for properly trained Autostart technicians: a certain level of skills and knowledge is therefore assumed. Please review the installation guide carefully before beginning any work.

**Warning**

This Remote Car Starter is designed for vehicles with a manual Transmission only. Before installing the Unit, test that the OEM Door Switch contacts of the vehicle work well, and that the Parking Brake system operates properly.

**DOC**.4.01 – October 24, 2006 CA SP Manufactured in Canada

## Resetting the Module (without the plug-in valet)

**WARNING!** By resetting the module, all programmed values are erased — i.e.: tach, transmitter as well as programming options. The programming options are returned to their default values.

1. **FLASH** the hood pin (see on page 1).
2. In ten seconds or less, press and release the brake pedal 6 times.

**The parking lights will flash 8 times confirming the reset.**

## Transmitter Programming Procedure.

1. **FLASH** the hood pin (see on page 1) — the parking lights will stay on for up to 20 seconds.
2. Before the lights go out, turn the ignition key to the **IGNITION ON (RUN)** position and immediately to the **OFF** position.
3. Press and hold the "I" button and keep it down until the parking lights flash 5 times quickly.
4. The transmitter has been stored in memory.
5. To exit: close the hood.

## Entering Programming Options

1. **Flash the hood pin switch (see on page 1) —** the parking lights will stay on for up to 20 seconds.
2. Before the lights go out, press and hold the brake pedal and then press one of the following buttons:

   **Button I** ..... to access mode 1; or

   **Button II** ..... to access mode 2
3. The parking lights will flash and the horn will honk (if programmed) once or twice to confirm entry into a mode.
4. Release the brake pedal.

After selection the function, press one of the corresponding buttons to select the option.

| | | |
|---|---|---|
| **BUTTON I** | for | Option 1, |
| **BUTTON II** | for | Option 2, |
| **BUTTON I & II** | for | Option 3. |

## Programming Options

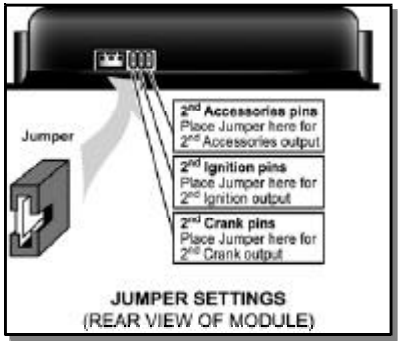
| MODE 1 | * INDICATES DEFAULT SETTING | |
|---|---|---|
| **FUNCTION 1 – Ignition-controlled door locks** | | |
| | **OPTION 1*** | **Ignition-controlled door locks disabled** |
| | OPTION 2 | Ignition-controlled door locks enabled |
| **FUNCTION 2 – Secure Lock** | | |
| | **OPTION 1*** | **Secure lock disabled** |
| | OPTION 2 | Standard secure locks enable |
| **FUNCTION 3 – Passive / Active Arming of the starter kill** | | |
| | **OPTION 1*** | **Starter Kill passive (1-minute timeout.)** |
| | OPTION 2 | Starter Kill active |
| | OPTION 3 | Starter Kill passive (1-minute timeout). Press the I button to unlock (if button I is programmed as **LOCK** or **UNLOCK** button). |
| **FUNCTION 4 – Lock Pulse Duration** | | |
| | **OPTION 1*** | **7/10-second lock / unlock pulses** |
| | OPTION 2 | 4-second lock / unlock pulses |
| | OPTION 3 | 7/10-second lock pulse and two ¼-second unlock pulses |
| **FUNCTION 5 – Flashing LED** | | |
| | **OPTION 1*** | **Enabled (without starter kill → will flash only when ignition is OFF)** |
| | OPTION 2 | Disabled |
| | OPTION 3 | Enabled (with starter kill → will flash when the starter kill engages. This option should be selected ONLY if the starter kill is installed.) |



The system will exit ready mode if a door or the hood is opened, if the brake pedal is pressed, if the parking brake is disengaged or if the ignition key is turned to the **IGNITION ON (RUN)** position.

- ❑ **Remote-start the engine and listen for starter drag.** If the starter cranks for too long, carry out another tach programming procedure.
- ❑ **Parking brake shutdown circuit.** With the vehicle running under the system, disengage the parking brake. The engine should shut down immediately. If the engine continues to run, check the parking brake switch connection.
- ❑ **Door pin shutdown circuit.** Make sure the system **exits ready mode** when each door is opened. (Test each door.)
- ❑ **Hood switch shutdown.** With the vehicle running under the remote car starter, open the hood; the vehicle should shut down. If it does not shut down, check the hood pin-switch and its connector.
- ❑ **Brake shutdown circuit.** With the vehicle running under the remote car starter, press and release the brake pedal. The engine should shut down immediately. If the engine continues to run, check the brake switch connection.
- ❑ **OEM alarm control.** Make sure the module is able to arm and disarm the oem alarm (if applicable).
- ❑ **Door locks and trunk testing.** Make sure each of these options respond to the transmitter (if installed).
- ❑ **Starter kill option.** Sit inside the vehicle with all doors closed. Arm the vehicle, then try to start the engine with the key. They engine should not start. If the engine starts, rewire the starter kill to reach proper operation.
- ❑ **Valet mode.** Make sure the remote car starter is able to properly enter and exit valet mode. When setting the remote car starter into valet mode, pressing the lock button will lock the doors without activating the starter kill. (Refer to the user guide for further information on valet mode.)
- ❑ **Idle mode.** Make sure the vehicle properly enters and exits idle mode.
- ❑ **Most comebacks are the result of misunderstandings about how a product works or performs. Take the time to properly explain all functions and features to the customers before they leave the premises. Doing this will save time and money.**

## Supplementary Information
## Fifth Relay Output (2nd IGN, ACC or CRANK)


2nd Accessories pins
Place Jumper here for 2nd Accessories output
Jumper
2nd Ignition pins
Place Jumper here for 2nd Ignition output
2nd Crank pins
Place Jumper here for 2nd Crank output
JUMPER SETTINGS
(REAR VIEW OF MODULE)

Remote car starters of this series are equipped with an on-board high-current programmable 5th relay that can be used to power a second ignition, accessory or crank wire. The unit uses 3 sets of pins; each set corresponds to a specific function of the output. In order to activate one of the three possible functions, you must place the jumper (supplied) on one of the three sets of pins and connect the 14 AWG wire to the second **IGN. / ACC. / CRANK** wire of the vehicle.

**Caution!**
Only one set of pins can be used at one time. Using more than one jumper may result in serious damage to the vehicle. The relay output rating on this unit is 25 a at most. Defective oem solenoid switches can sometimes draw up to 50 or 60 a, causing the 30 a fuse to blow. Always verify your circuit with an appropriate measuring device.

## Testing

Before putting back the vehicle together, it is recommended to check that the system operates properly. The following testing procedures should be used to verify proper installation and operation of the system. Before testing, make sure that all connections are soldered and that the unit is plugged in.

- **Make sure the system properly enters and exits ready mode:**

Ready mode is a sequence of steps that must be followed in order to allow manual transmission vehicles to be remote started. To get in to ready mode:

1. Ensure that all the doors are closed and that the gear shift lever is in the **NEUTRAL** position.
2. With the engine already running, apply the parking brake and release the brake pedal.
- **Make sure to release the brake pedal.**
3. Within 20 seconds, press **I** or **II**.
- **The parking lights will flash 3 times quickly and remain lit.**
4. Remove the key: the engine will go on running.
5. Exit the vehicle and close the door.
6. Press and hold either:

a. **II** to shut down the engine without affecting the doors.
b. **I** & **II** to lock the door and activate idle mode.

**NOTE:** if button **I** is programmed as **LOCK** or **UNLOCK**, press and hold either :

a. **I** to lock the doors and shut down the engine or lock and enter turbo mode ;
b. **II** to shut down the engine without affecting the doors.
c. **I** & **II** to lock the doors and activate idle mode.



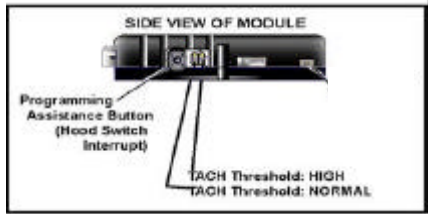
| MODE 2 | * INDICATES DEFAULT SETTING | |
|---|---|---|
| **FUNCTION 1 – Engine Run Time** | | |
| | OPTION 1 | 3-minute Run Time in Gas Mode / 8-minute in Diesel Mode. |
| | **OPTION 2*** | **15-minute Run Time in Gas Mode / 20-minute in Diesel Mode.** |
| | OPTION 3 | 25-minute Run Time in Gas Mode / 30-minute in Diesel Mode. |
| **FUNCTION 2 – Idle Mode/Turbo** | | |
| | OPTION 1 | Idle Mode **ENABLED**/Turbo Mode **ENABLED** |
| | **OPTION 2*** | **Idle Mode ENABLED/Turbo Mode DISABLED** |
| **FUNCTION 3 – Engine Type – Gas or Diesel** | | |
| | OPTION 1 | **DIESEL** Engine Mode, 30 seconds delay (in Cold Weather Mode Run time 20 min). |
| | **OPTION 2*** | **GASOLINE Engine Mode** |
| | OPTION 3 | **DIESEL** Engine Mode, 18 seconds delay (in Cold Weather Mode Run time 8 min). |
| **FUNCTION 4 – Lock/Unlock or Horn output (when Mode 2, Function 6, Option 1 is programmed)** | | |
| | OPTION 1 | N/A |
| | **OPTION 2*** | **Lock/Unlock Constant output when button I is pressed >3sec** |
| | OPTION 3 | Horn confirmation when pressing button **I** (if button **I** is programmed as **LOCK** or **UNLOCK** button) |
| **FUNCTION 5 – Pager** | | |
| | OPTION 1 | Enabled |
| | **OPTION 2*** | Disabled |
| **FUNCTION 6 –Remote function** | | |
| | OPTION 1 | Button **I** = Lock/Unlock, Button **II** = Start/Stop, Button **I** & **II** = Trunk |
| | **OPTION 2*** | **Button I = Start, Button II = Stop, Button I & II = Trunk** |

## Tach Programming

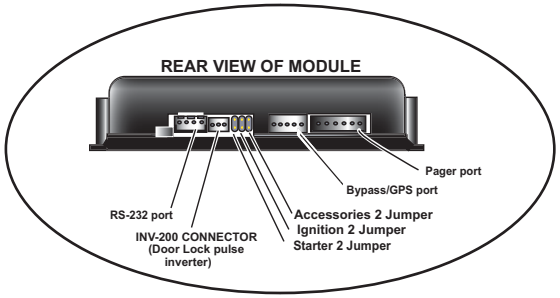
1. **Flash the hood pin (see on page 1)** — the parking lights will stay on for up to 20 seconds.
2. Before the lights go out, press and hold the brake pedal and press the **I** and **II** buttons simultaneously — the parking lights will flash 4 times At that point, release the brake pedal.
3. Start up the engine and allow the vehicle to reach regular engine idle speed.
4. Once the engine is running idle, press the brake pedal and keep it down until you hear the parking lights output click 5 times.
5. Release the brake pedal —the tach programming is now complete.

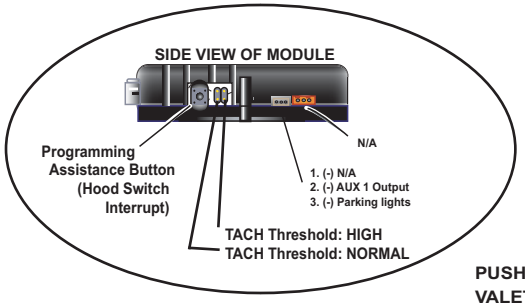
## Tach jumper settings

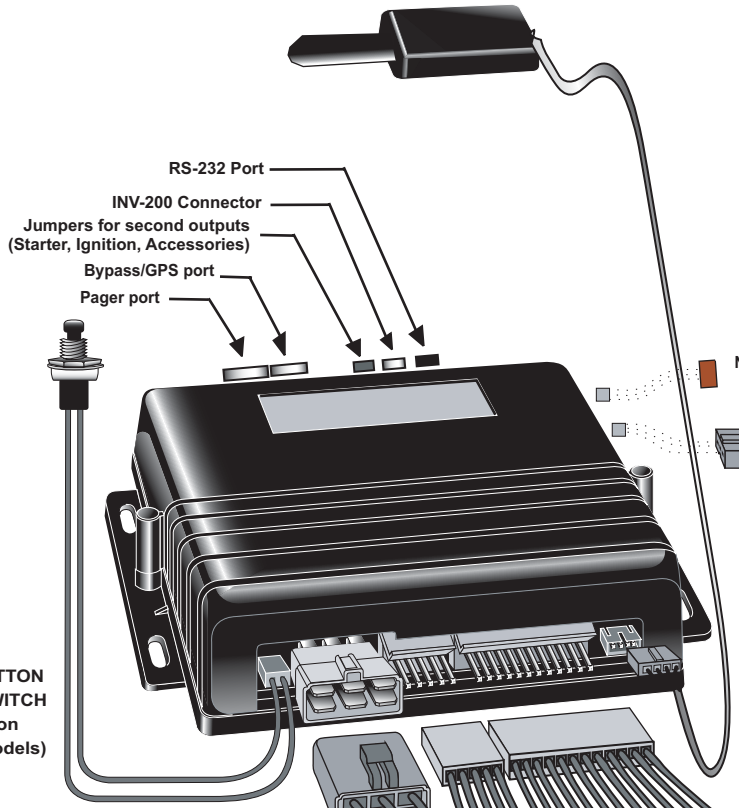
Some new vehicles have a higher TACH voltage threshold, which would fall out of the normal TACH trigger circuit of the remote car starter. Changing the jumper to TACH Threshold HIGH will allow the module to properly detect the TACH signal.

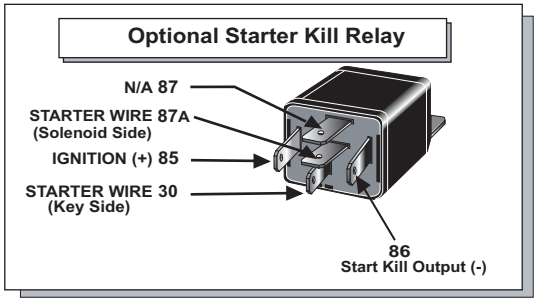


# WIRING SCHEMATIC



YELLOW ..... IGNITION
RED .....12V (Battery)
ORANGE...ACCESSORIES
(Heater Blower Motor)
PURPLE..... STARTER
GREEN ..... 5th RELAY

RED .....+12V (Battery)

12- YELLOW ..... (+) Glow plug input
11- GREY ..... (–) NEG. Door input
10- WHITE ..... (–) GROUND when running
9- PURPLE ..... (–) EXT. TRIGGER input
8- ORANGE ..... (–) Parking Brakes input
7- WHITE/ORANGE ..... (–) Starter kill output
6- BLUE/WHITE ..... (+) POS. Door input
5- WHITE/GREEN ..... (–) DISARM
4- WHITE/BROWN ..... (–) REARM
3- GREEN ..... (–) UNLOCK
2- BROWN ..... (–) LOCK
1- BLUE ..... (–) TRUNK

1- BLACK ..... GROUND (–)
2- PURPLE..... TACH (AC)
3- GREY..... HOOD SWITCH (–)
4- ORANGE ..... BRAKE SWITCH (+)
5- YELLOW..... PARKING LIGHTS (+)

V1.00 DL - June 2, 2006